# **WaterWise**<sup>™</sup>



Each participant can be expected to produce savings of approximately 10,402 gallons of water, 46 therms of natural gas, and 230 kWh of electricity. The high quality products are able to generate savings for up to 10 years or more!

Kit Items (Product Life	Electricity projected savings Year 1 Year 10	gas projected savings Year 1 Year 10	Water projected savings Year 1 Year 10
2.0 gpm Showerhead (10 yrs)	194 1945	400	8,760
2.0 gpm Faucet Aerator (5 yrs)	24 120	5 25	1,095 5,475
1.0 gpm Faucet Aerator (5 yrs)	12 60	1 10	2,735
TOTAL SAVINGS	230 <b>2,125</b> kilowatt hours	46 435 therms	10,402 95,810 gallons
Cont/Downsia	\$ 04	\$ 00	\$ 00

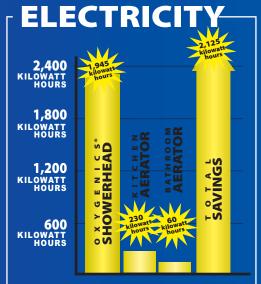
# Cost/Benefit

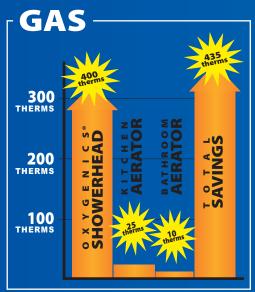
(\$30 program cost)

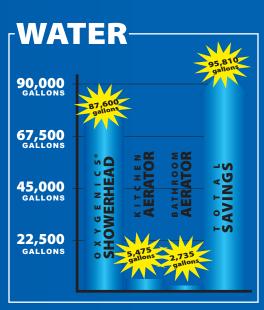
**₹.01** per kWh

.09 per therm

1.02 per ccf







<sup>\*</sup> Based on US Census Information, 2002. http://www.census.gov/population/www/socdemo/hh-fam/cps2002.html † Appliance efficiency and percentage of use by region based on individual report on the LivingWise Resource Action Program commissioned by Southern California Water Corporation Submitted August 31, 2001

# **Calculation Summary**

## showerhead

#### **WATER**

2 gpm flow reduction x 8 min shower x 2.5\* residents x 365 days x 0.6 (% installation) = 8,760 gal year 1) x 10 years = 87,600 gallons of water (and wastewater) per household

#### **GAS** (80% of region water heat †)

8,760 gal x 0.7 (% hot) x 8.33 lbs/gal x 65° F (temp rise)  $\div$  0.65 (% boiler efficiency) x 0.8 (% gas market share) = 4,086,364.8 Btu  $\div$ 100,000 Btu/therms = 40 therms (year 1) x 10 = 400 therms

#### **ELECTRICITY** (20% of region water heat †)

 $8,760 \, gal \, x .7 \, (\%hot) \, x \, 8.33 \, Btu/gal \, x \, 65^{\circ} \, F \, (temp \, rise) \, x \, 0.2 \, (\% \, marketshare) \div 3,413 \, Btu/kWh = 194.5 \, kWh \, (year \, 1) \, x \, 10 \, years = 1,945 \, kWh$ 

# kitchen faucet aerator

#### WATER

2 gpm flow reduction x 2.5 min use/day x 365 days x 0.6 (% installation) = 1,095 gal (year 1) x 5 years = 5,475 gallons

#### **GAS** (80% of region water heat †)

1,095 gal x .7 (% hot) x 8.33 lbs/gal x 65° F (temp rise)  $\div$  0.65 (% boiler efficiency) x 0.8 (% market share) = 510,795 Btu  $\div$  100,000 Btu/therms = 5.1 therms (year 1) x 5 years = 25 therms

#### **ELECTRICITY** (20% of region water heat †)

1,095 gal x 0.7 (% hot) x 8.33 lbs/gal x 65° F (temp rise) x 0.2 (% market share)  $\div$  3,413 Btu/kWh = 24.3 KWh (year) x 5 years = 120 kWh

### **Bathroom faucet aerator**

#### **WATER**

1 gpm flow reduction x 2.5 min use/day x 365 days x 0.6 (% installation) = 547.5 gal (year 1) x 5 years = 2,737 gallons

#### **GAS** (80% of region water heat †)

547 gal x 0.7 (% hot) x 8.33 lbs/gal x 65° F (temp rise)  $\div$  0.65 (% boiler efficiency) x 0.8 (% market share) = 255,165 Btu  $\div$  100,000 Btu/therms = 2.5 therms (year 1) x 5 years = 13 therms

#### **ELECTRICITY** (20% of region water heat †)

 $547 \, gal \, x \, 0.7 \, (\% \, hot) \, x \, 8.33 \, lbs/gal \, x \, 65^{\circ} \, F \, temp \, rise \, x \, 0.20 \, (\% \, market \, share) \, x \, 3,413 \, Btu/kWh = 12 \, KWh \, (year) \, x \, 5 \, years = 60 \, kWh$ 



Resource Action Programs® 2351 Tenaya Drive Modesto CA 95354 (888) 438-9473 fax. (209) 529-0266 www.resourceactionprograms.org

<sup>\*</sup> Based on US Census Information, 2002. http://www.census.gov/population/www/socdemo/hh-fam/cps2002.html

<sup>†</sup> Appliance efficiency and percentage of use by region based on individual report on the LivingWise Resource Action Program commissioned by Southern California Water Corporation Submitted August 31, 2001